

51791AUSC1.ST25.txt
SEQUENCE LISTING

<110> Harkins, Richard
Parkes, Deborah
Parry, Gordon
Schneider, Douglas
Steinbrecher, Renate

<120> DNA Encoding a Novel RG-1 Polypeptide

<130> 51791AUSC1

<150> US 60/172,370
<151> 1999-12-16

<150> US 09/732,357
<151> 2000-12-07

<160> 31

<170> PatentIn version 3.1

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gaactggagc ctcattggcc ggccccgggc gcccggctcg ggctaaata ggagctccgg 240
gctctggctg ggacccgacc gctgccggcc gcgctcccg tgccttgcc gggtg atg 298
Met
1

gaa aac ccc agc ccg gcc gcc ctg ggc aag gcc ctc tgc gct ctc 346
Glu Asn Pro Ser Pro Ala Ala Ala Leu Gly Lys Ala Leu Cys Ala Leu
5 10 15

ctc ctg gcc act ctc ggc gcc ggc cag cct ctt ggg gga gag tcc 394
Leu Leu Ala Thr Leu Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu Ser
20 25 30

atc tgt tcc gcc gga gcc ccg gcc aaa tac agc atc acc ttc acg ggc 442
Ile Cys Ser Ala Gly Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr Gly
35 40 45

aag tgg agc cag acg gcc ttc ccc aag cag tac ccc ctg ttc cgc ccc 490

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Lys Trp Ser Gln Thr Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg Pro			
50	55	60	65
cct gcg cag tgg tct tcg ctg ggg gcc ggc cat agc tcc gac tac			538
Pro Ala Gln Trp Ser Ser Leu Leu Gly Ala Ala His Ser Ser Asp Tyr			
70	75	80	
agc atg tgg agg aag aac cag tac gtc agt aac ggg ctg cgc gac ttt			586
Ser Met Trp Arg Lys Asn Gln Tyr Val Ser Asn Gly Leu Arg Asp Phe			
85	90	95	
gcg gag cgc ggc gag gcc tgg gcg ctg atg aag gag atc gag gcg gcg			634
Ala Glu Arg Gly Glu Ala Trp Ala Leu Met Lys Glu Ile Glu Ala Ala			
100	105	110	
ggg gag gcg ctg cag agc gtg cac gcg gtg ttt tcg gcg ccc gcc gtc			682
Gly Glu Ala Leu Gln Ser Val His Ala Val Phe Ser Ala Pro Ala Val			
115	120	125	
ccc agc ggc acc ggg cag acg tcg gcg gag ctg gag gtg cag cgc agg			730
Pro Ser Gly Thr Gly Gln Thr Ser Ala Glu Leu Glu Val Gln Arg Arg			
130	135	140	145
cac tcg ctg gtc tcg ttt gtg gtg cgc atc gtg ccc agc ccc gac tgg			778
His Ser Leu Val Ser Phe Val Val Arg Ile Val Pro Ser Pro Asp Trp			
150	155	160	
ttc gtg ggc gtg gac agc ctg gac ctg tgc gac ggg gac cgt tgg cgg			826
Phe Val Gly Val Asp Ser Leu Asp Leu Cys Asp Gly Asp Arg Trp Arg			
165	170	175	
gaa cag gcg gcg ctg gac ctg tac ccc tac gac gcc ggg acg gac agc			874
Glu Gln Ala Ala Leu Asp Leu Tyr Pro Tyr Asp Ala Gly Thr Asp Ser			
180	185	190	
ggc ttc acc ttc tcc tcc ccc aac ttc gcc acc atc ccg cag gac acg			922
Gly Phe Thr Phe Ser Ser Pro Asn Phe Ala Thr Ile Pro Gln Asp Thr			
195	200	205	
gtg acc gag ata acg tcc tcc tct ccc agc cac ccg gcc aac tcc ttc			970
Val Thr Glu Ile Thr Ser Ser Pro Ser His Pro Ala Asn Ser Phe			
210	215	220	225
tac tac cca cgg ctg aag gcc ctg cct ccc atc gcc agg gtg aca ctg			1018
Tyr Tyr Pro Arg Leu Lys Ala Leu Pro Pro Ile Ala Arg Val Thr Leu			
230	235	240	
gtg cgg ctg cga cag agc ccc agg gcc ttc atc cct ccc gcc cca gtc			1066
Val Arg Leu Arg Gln Ser Pro Arg Ala Phe Ile Pro Pro Ala Pro Val			
245	250	255	
ctg ccc agc agg gac aat gag att gta gac agc gcc tca gtt cca gaa			1114
Leu Pro Ser Arg Asp Asn Glu Ile Val Asp Ser Ala Ser Val Pro Glu			
260	265	270	
acg ccg ctg gac tgc gag gtc tcc ctg tgg tcg tcc tgg gga ctg tgc			1162
Thr Pro Leu Asp Cys Glu Val Ser Leu Trp Ser Ser Trp Gly Leu Cys			
275	280	285	

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cgg gtc cag ccc gcc aac aac ggg agc ccc tgc ccc gag ctc gaa gaa Arg Val Gln Pro Ala Asn Asn Gly Ser Pro Cys Pro Glu Leu Glu Glu 310 315 320	1258
gag gct gag tgc gtc cct gat aac tgc gtc taa gaccagagcc ccgcagcccc Glu Ala Glu Cys Val Pro Asp Asn Cys Val 325 330	1311
tggggccccc cggagccatg ggggtgcggg ggctcctgtg caggctcatg ctgcaggcgg 1371	
ccgagggcac agggggtttc gcgcgtgtcc tgaccgcgtt gaggccgcgc cgaccatctc 1431	
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<210> 2
<211> 331
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<213> Homo sapiens

<400> 2

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Leu Leu Leu Ala Thr Leu Gly Ala Ala Gly Gln Pro Leu Gly Gly Glu
20 25 30

Ser Ile Cys Ser Ala Gly Ala Pro Ala Lys Tyr Ser Ile Thr Phe Thr
35 40 45

Gly Lys Trp Ser Gln Thr Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg
50 55 60

Pro Pro Ala Gln Trp Ser Ser Leu Leu Gly Ala Ala His Ser Ser Asp
65 70 75 80

Tyr Ser Met Trp Arg Lys Asn Gln Tyr Val Ser Asn Gly Leu Arg Asp
85 90 95

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Phe Ala Glu Arg Gly Glu Ala Trp Ala Leu Met Lys Glu Ile Glu Ala
100 105 110

Ala Gly Glu Ala Leu Gln Ser Val His Ala Val Phe Ser Ala Pro Ala
115 120 125

Val Pro Ser Gly Thr Gly Gln Thr Ser Ala Glu Leu Glu Val Gln Arg
130 135 140

Arg His Ser Leu Val Ser Phe Val Val Arg Ile Val Pro Ser Pro Asp
145 150 155 160

Trp Phe Val Gly Val Asp Ser Leu Asp Leu Cys Asp Gly Asp Arg Trp
165 170 175

Arg Glu Gln Ala Ala Leu Asp Leu Tyr Pro Tyr Asp Ala Gly Thr Asp
180 185 190

Ser Gly Phe Thr Phe Ser Ser Pro Asn Phe Ala Thr Ile Pro Gln Asp
195 200 205

Thr Val Thr Glu Ile Thr Ser Ser Ser Pro Ser His Pro Ala Asn Ser
210 215 220

Phe Tyr Tyr Pro Arg Leu Lys Ala Leu Pro Pro Ile Ala Arg Val Thr
225 230 235 240

Leu Val Arg Leu Arg Gln Ser Pro Arg Ala Phe Ile Pro Pro Ala Pro
245 250 255

Val Leu Pro Ser Arg Asp Asn Glu Ile Val Asp Ser Ala Ser Val Pro
260 265 270

Glu Thr Pro Leu Asp Cys Glu Val Ser Leu Trp Ser Ser Trp Gly Leu
275 280 285

Cys Gly Gly His Cys Gly Arg Leu Gly Thr Lys Ser Arg Thr Arg Tyr
290 295 300

Val Arg Val Gln Pro Ala Asn Asn Gly Ser Pro Cys Pro Glu Leu Glu
305 310 315 320

Glu Glu Ala Glu Cys Val Pro Asp Asn Cys Val
325 330

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<220>
<223> primer

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cgcgcatagc tccgactac

19

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<220>
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<400> 4
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15

<210> 5
<211> 30
<212> DNA
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<220>
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<400> 5
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30

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tccctctaga gccaccatgg aaaaccccag cccggc

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Ser Ile Thr

<210> 9
<211> 19
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<400> 9

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1 5 10 15

Leu Phe Arg

<210> 10
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<212> PRT
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<400> 10

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1 5 10 15

<210> 11
<211> 23
<212> PRT
<213> Homo sapiens

<400> 11

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1 5 10 15

Thr Ile Pro Gln Asp Thr Val
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<210> 12
<211> 12
<212> PRT
<213> Homo sapiens

<400> 12

Asn Glu Ile Val Asp Ser Ala Ser Val Pro Glu Thr
1 5 10

<210> 13
<211> 330
<212> PRT
<213> Rattus norvegicus

<400> 13

Met Glu Asn Val Ser Phe Ser Leu Asp Arg Thr Leu Trp Val Phe Leu
1 5 10 15

Leu Ala Met Leu Gly Ser Thr Ala Gly Gln Pro Leu Gly Gly Glu Ser
20 25 30

Val Cys Thr Ala Arg Pro Leu Ala Arg Tyr Ser Ile Thr Phe Thr Gly
35 40 45

Lys Trp Ser Gln Thr Ala Phe Pro Lys Gln Tyr Pro Leu Phe Arg Pro
50 55 60

Pro Ala Gln Trp Ser Ser Leu Leu Gly Ala Ala His Ser Ser Asp Tyr
65 70 75 80

Ser Met Trp Arg Lys Asn Glu Tyr Val Ser Asn Gly Leu Arg Asp Phe
85 90 95

Ala Glu Arg Gly Glu Ala Trp Ala Leu Met Lys Glu Ile Glu Ala Ala
100 105 110

Gly Glu Lys Leu Gln Ser Val His Ala Val Phe Ser Ala Pro Ala Val
115 120 125

Pro Ser Gly Thr Gly Gln Thr Ser Ala Glu Leu Glu Val His Pro Arg
130 135 140

His Ser Leu Val Ser Phe Val Val Arg Ile Val Pro Ser Pro Asp Trp
145 150 155 160

Phe Val Gly Ile Asp Ser Leu Asp Leu Cys Glu Gly Gly Arg Trp Lys

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165 170 175

Glu Gln Val Val Leu Asp Leu Tyr Pro His Asp Ala Gly Thr Asp Ser
 180 185 190

Gly Phe Thr Phe Ser Ser Pro Asn Phe Ala Thr Ile Pro Gln Asp Thr
 195 200 205

Val Thr Glu Ile Thr Ala Ser Ser Pro Ser His Pro Ala Asn Ser Phe
 210 215 220

Tyr Tyr Pro Arg Leu Lys Ser Leu Pro Pro Ile Ala Lys Val Thr Phe
 225 230 235 240

Val Arg Leu Arg Gln Ser Pro Arg Ala Phe Ala Pro Pro Ser Leu Asp
 245 250 255

Leu Ala Ser Arg Gly Asn Glu Ile Val Asp Ser Leu Ser Val Pro Glu
 260 265 270

Thr Pro Leu Asp Cys Glu Val Ser Leu Trp Ser Ser Trp Gly Leu Cys
 275 280 285

Gly Gly Pro Cys Gly Lys Leu Gly Ala Lys Ser Arg Thr Arg Tyr Val
 290 295 300

Arg Val Gln Pro Ala Asn Asn Gly Thr Pro Cys Pro Glu Leu Glu Glu
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Glu Ala Glu Cys Ala Pro Asp Asn Cys Val
 325 330

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<211> 34

<212> DNA

<213> artificial sequence

<220>

<223> primer

<400> 14

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<210> 15

<211> 45

<212> DNA

<213> artificial sequence

51791AUSC1.ST25.txt

<220>
<223> primer

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<211> 30
<212> DNA
<213> artificial sequence

<220>
<223> primer

<400> 16
ggaaagcttg ccaccatgga aaccccagcg 30

<210> 17
<211> 30
<212> DNA
<213> artificial sequence

<220>
<223> primer

<400> 17
cagtcgtacg tttgatctcc accttggtcc 30

<210> 18
<211> 31
<212> DNA
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<220>
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gcggccgcca ccatggagtt tgtgctgagc t 31

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<212> DNA
<213> artificial sequence

<220>
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<400> 19
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<210> 20
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51791AUSC1.ST25.txt

<213> Homo sapiens

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ctctcctgca gggccagtca gagtggtagc agcagctact tagcctggta ccagcagaaa	180
cctggccagg ctccccaggct cctcatctat ggtgcaccca gcagggccac tggcatccca	240
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag	300
cctgaagatt ttgcagtgtta ttactgtcag cagtatagtta gctcgctcac tttcggcggg	360
gggaccaagg tggagatcaa a	381

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<211> 441

<212> DNA

<213> Homo sapiens

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tgtgcaggct ctggattcac cttagtgc tatgttatgc actggcttcg ccaggctcca	180
ggaaaaggctc tggagtgggt atcagttatt ggtactgggt gtgtcacaca ctatgcagac	240
tccgtgaagg gccgattcac catctccaga gacaatgccaa agaactcctt gtatcttcaa	300
atgaacagcc tgagagccga ggacatggct atgtattact gtgcaagatg gggttactat	360
ggttcgggaa gttatgagaa tgatgtttt gatatctggg gccaaaggac aatggtcacc	420
gtctttcag cttccaccaa a	441

<210> 22

<211> 441

<212> DNA

<213> Homo sapiens

<400> 22

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tgtgcaggct ctggattcac cttagtgc tatgttatgc actggcttcg ccaggctcca	180
ggaaaaggctc tggagtgggt atcagttatt ggtactgggt gtgtcacaca ctatgcagac	240
tccgtgaagg gccgattcac catctccaga gacaatgccaa agaactcctt gtatcttcaa	300
atgaacagcc tgagagccga ggacacggct gtgtattact gtgcaagatg gggttactat	360

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gtctcttcag cctccaccaa g	441

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<213> Homo sapiens

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ctctcttgca gggccagtca gagtgttagc agcagctact tagcctggta ccagcagaaa	180
cctggccagg ctcccaggct cctcatctat ggtgcacatcca gcagggccac tggcatccca	240
gacaggttca gtggcagtgg gtctggaca gacttcactc tcaccatcag cagactggag	300
cctgaagatt ttgcagtgtta ttactgtcag cagttatggta gctcaactcac ttgcggcggaa	360
gggaccaagg tggagatcaa a	381

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<212> DNA
<213> Homo sapiens

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gttcagctgg tgcagtctgg gggaggcttg gtacatcctg gggggccct gagactctcc	120
tgtgcaggct ctggattcac cttcagtagc tatgtcatgc actgggtcg ccaggctcca	180
ggaaaaggctc tggagtgggt atcagtaatt ggtactggtg gtgtcacaaa ctatgcagac	240
tccgtgaagg gccgattcac catctccaga gacaatgcca agaactcctt gtatcttcaa	300
atgaacagcc tgagagccga ggacatggct gtgtattact gtcaagatg gggggactgg	360
gtatgtgctt ttgatatactg gggccaaggaa acaatggtca ccgtctcttc agcctccacc	420
aag	423

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<211> 423
<212> DNA
<213> Homo sapiens

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gttcagctgg tgcagtctgg gggaggcttg gtacaacctg gggggccct gagactctcc	120

51791AUSC1.ST25.txt

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ggaaaaggc	tggagtgggt	atcagaatt	ggtactggtg	gtgtcacaaa	ctatgcagac	240
tccgtgaagg	gccgattcac	catctccaga	gacaatgcc	agaactcctt	gtatctcaa	300
atgaacagcc	tgagagccga	ggacacggct	gtgttattact	gtgcaagatg	gggggactgg	360
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<213> Homo sapiens

<400> 26

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					20			25					30		

Leu	Ser	Pro	Gly	Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser
					35			40			45				

Val	Ser	Ser	Ser	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala
					50			55			60				

Pro	Arg	Leu	Leu	Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro
	65				70				75			80			

Asp	Arg	Phe	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile		
					85			90			95				

Ser	Arg	Leu	Glu	Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr
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Ser	Ser	Ser	Leu	Thr	Phe	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys		
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<212> PRT
<213> Homo sapiens

<400> 27

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20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Val Met His Trp Leu Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Val Ile Gly Thr Gly Gly Val Thr His Tyr Ala Asp
65 70 75 80

Ser Val Lys Gly Arg Phe Met Ile Ser Arg Asp Asn Ala Lys Asn Ser
85 90 95

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Met Tyr
100 105 110

Tyr Cys Ala Arg Trp Gly Tyr Tyr Gly Ser Gly Ser Tyr Glu Asn Asp
115 120 125

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
130 135 140

Ser Thr Lys
145

<210> 28
<211> 147
<212> PRT
<213> Homo sapiens

<400> 28

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1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe
35 40 45

51791AUSC1.ST25.txt

Ser Ser Tyr Val Met His Trp Leu Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Val Ile Gly Thr Gly Gly Val Thr His Tyr Ala Asp
65 70 75 80

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser
85 90 95

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
100 105 110

Tyr Cys Ala Arg Trp Gly Tyr Tyr Gly Ser Gly Ser Tyr Glu Asn Asp
115 120 125

Ala Phe Asp Ile Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Ala
130 135 140

Ser Thr Lys
145

<210> 29
<211> 127
<212> PRT
<213> Homo sapiens

<400> 29

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro
1 5 10 15

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser
20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser
35 40 45

Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala
50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro
65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
85 90 95

51791AUSC1.ST25.txt

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr
100 105 110

Gly Ser Ser Leu Thr Phe Gly Gly Thr Lys Val Glu Ile Lys
115 120 125

<210> 30
<211> 141
<212> PRT
<213> Homo sapiens

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Met Glu Phe Val Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Met
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Val Ile Gly Thr Gly Gly Val Thr Asn Tyr Ala Asp
65 70 75 80

Ser Val Lys Gly Arg Phe Met Ile Ser Arg Asp Asn Ala Lys Asn Ser
85 90 95

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
100 105 110

Tyr Cys Ala Arg Trp Gly Asp Trp Asp Asp Ala Phe Asp Ile Trp Gly
115 120 125

Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys
130 135 140

<210> 31
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<212> PRT
<213> Homo sapiens

<400> 31

Met Glu Phe Val Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly

51791AUSC1.ST25.txt

1

5

10

15

Val Gln Cys Glu Val Gln Leu Val Gln Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Gly Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Val Ile Gly Thr Gly Gly Val Thr Asn Tyr Ala Asp
65 70 75 80

Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser
85 90 95

Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr
100 105 110

Tyr Cys Ala Arg Trp Gly Asp Trp Asp Asp Ala Phe Asp Ile Trp Gly
115 120 125

Gln Gly Thr Met Val Thr Val Ser Ser Ala Ser Thr Lys
130 135 140